

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/227,742

DATE: 04/12/1999
TIME: 13:20:38

INPUT SET: S31428.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

(1) General Information

(i) APPLICANT: BLOOM, FREDERIC .
KUO, JONATHAN
LIN, JHY-JHU
MA, JIN

(ii) TITLE OF THE INVENTION: METHOD FOR INCREASING VIABILITY
AND TRANSFORMATION EFFICIENCY OF BACTERIA DURING
STORAGE AT LOW TEMPERATURES

(iii) NUMBER OF SEQUENCES: 17

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Howrey & Simon
(B) STREET: 1299 Pennsylvania Avenue, N.W.
(C) CITY: Washington
(D) STATE: DC
(E) COUNTRY: USA
(F) ZIP: 20004-2402

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette
(B) COMPUTER: IBM Compatible
(C) OPERATING SYSTEM: DOS
(D) SOFTWARE: FastSEQ for Windows Version 2.0

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 09/227,742
(B) FILING DATE:
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/826,426
(B) FILING DATE: 27-MAR-1997
(A) APPLICATION NUMBER: U.S. Ser. No. 60/025,838
(B) FILING DATE: 05-SEP-1996

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Auerbach, Jeffrey
(B) REGISTRATION NUMBER: 32,680
(C) REFERENCE/DOCKET NUMBER: 04227-0031

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/227,742DATE: 04/12/1999
TIME: 13:20:38

INPUT SET: S31428.raw

47
48 (ix) TELECOMMUNICATION INFORMATION:
49 (A) TELEPHONE: 202 383-7451
50 (B) TELEFAX: 202 383-6610
51 (C) TELEX:
52
53
54 (2) INFORMATION FOR SEQ ID NO:1:
55
56 (i) SEQUENCE CHARACTERISTICS:
57 (A) LENGTH: 25 base pairs
58 (B) TYPE: nucleic acid
59 (C) STRANDEDNESS: single
60 (D) TOPOLOGY: linear
61
62
63 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
64
65 CGACTCACTA TAGGGAAGTG ATCCT 25
66
67 (2) INFORMATION FOR SEQ ID NO:2:
68
69 (i) SEQUENCE CHARACTERISTICS:
70 (A) LENGTH: 25 base pairs
71 (B) TYPE: nucleic acid
72 (C) STRANDEDNESS: single
73 (D) TOPOLOGY: linear
74
75
76 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
77
78 GATTTAGGTG AACTATAGA GATCC 25
79
80 (2) INFORMATION FOR SEQ ID NO:3:
81
82 (i) SEQUENCE CHARACTERISTICS:
83 (A) LENGTH: 23 base pairs
84 (B) TYPE: nucleic acid
85 (C) STRANDEDNESS: single
86 (D) TOPOLOGY: linear
87
88
89 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
90
91 CCACATATCC GGGTTTTTCG CTG 23
92
93 (2) INFORMATION FOR SEQ ID NO:4:
94
95 (i) SEQUENCE CHARACTERISTICS:
96 (A) LENGTH: 23 base pairs
97 (B) TYPE: nucleic acid
98 (C) STRANDEDNESS: single
99 (D) TOPOLOGY: linear

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/227,742DATE: 04/12/1999
TIME: 13:20:39

INPUT SET: S31428.raw

100
101
102 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
103
104 GAGGTTGGCA GGTTGTATGG AGT
105
106 23
107 (2) INFORMATION FOR SEQ ID NO:5:
108 (i) SEQUENCE CHARACTERISTICS:
109 (A) LENGTH: 23 base pairs
110 (B) TYPE: nucleic acid
111 (C) STRANDEDNESS: single
112 (D) TOPOLOGY: linear
113
114
115 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
116
117 TATGGAGCAG GCAATCGCTG ATG
118
119 23
120 (2) INFORMATION FOR SEQ ID NO:6:
121 (i) SEQUENCE CHARACTERISTICS:
122 (A) LENGTH: 23 base pairs
123 (B) TYPE: nucleic acid
124 (C) STRANDEDNESS: single
125 (D) TOPOLOGY: linear
126
127
128 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
129
130 CGTGAAGTGT TCGGCGATAA GAG
131
132 23
133 (2) INFORMATION FOR SEQ ID NO:7:
134 (i) SEQUENCE CHARACTERISTICS:
135 (A) LENGTH: 23 base pairs
136 (B) TYPE: nucleic acid
137 (C) STRANDEDNESS: single
138 (D) TOPOLOGY: linear
139
140
141 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
142
143 AATGCGGCCT CCGGCACTAA CAC
144
145 23
146 (2) INFORMATION FOR SEQ ID NO:8:
147 (i) SEQUENCE CHARACTERISTICS:
148 (A) LENGTH: 23 base pairs
149 (B) TYPE: nucleic acid
150 (C) STRANDEDNESS: single
151 (D) TOPOLOGY: linear
152

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/227,742DATE: 04/12/1999
TIME: 13:20:39

INPUT SET: S31428.raw

153
154
155 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
156 GGTACGGTG CGTTGGCAGG ATT
157
158 (2) INFORMATION FOR SEQ ID NO:9: 23
159
160 (i) SEQUENCE CHARACTERISTICS:
161 (A) LENGTH: 23 base pairs
162 (B) TYPE: nucleic acid
163 (C) STRANDEDNESS: single
164 (D) TOPOLOGY: linear
165
166
167 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
168 TATCAACGCC ATGCATCGCC ATC
169
170 (2) INFORMATION FOR SEQ ID NO:10: 23
171
172 (i) SEQUENCE CHARACTERISTICS:
173 (A) LENGTH: 23 base pairs
174 (B) TYPE: nucleic acid
175 (C) STRANDEDNESS: single
176 (D) TOPOLOGY: linear
177
178
179 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
180 ACTCCATACA ACCTGCCAAC CTC
181
182 (2) INFORMATION FOR SEQ ID NO:11: 23
183
184 (i) SEQUENCE CHARACTERISTICS:
185 (A) LENGTH: 17 base pairs
186 (B) TYPE: nucleic acid
187 (C) STRANDEDNESS: single
188 (D) TOPOLOGY: linear
189
190
191 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
192 CTGGCGGCGG CGAAGAG
193
194 (2) INFORMATION FOR SEQ ID NO:12: 17
195
196 (i) SEQUENCE CHARACTERISTICS:
197 (A) LENGTH: 21 base pairs
198 (B) TYPE: nucleic acid
199 (C) STRANDEDNESS: single
200 (D) TOPOLOGY: linear
201
202
203
204
205

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/227,742DATE: 04/12/1999
TIME: 13:20:39

INPUT SET: S31428.raw

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

AAATGGCTGA TCGGACTTGT T

21

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 19 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

TCCGGGGTGT CGTTGTATT

19

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 2658 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

234	CGTAGNTTTC GTTNCATTGG CCCTCAAACC CCTAATAGCG CCAGCGACAA CAACGCGCTG	60
235	GCAATACCAC CGCCGATAAT CGCCGCTTCC CGTTTGCTGC TGCCCGTGCG GTTAAACCAC	120
236	GGCGCGGAGC AGGGGAGCGG TAATGTCTGT TCCATCACCC CGCAAAGCAT TTCCCGTTTG	180
237	CGCCCAAAGC CCTTACGTTT TTGCATCGTG AATCCGGCGT CCTGCAAACC GCGGCGGACA	240
238	AAACCGGCAG ACGTAAATGT CGCCAGCGTG CCGCCCGGAC GCGCCAAACCT TGCCATGGCG	300
239	TTAAACAGAT TTTGCGTCCA CATATCCGGG TTTTTCGCTG GCGCAAAGCC GTCCAGAAAC	360
240	CAGGCATCTA CTTTTTGATT TAGCGAATCG TCCAGTTGGC TGGTCAGTTC GTTAATATCG	420
241	CCAAACCATA AATCCAGCGT CACGCGGCCT TCATCGAGCA ATAAACGATG GCAACCGGGC	480
242	AAGGGCATTG GCCACTGCGC CTGAAGTTGT TCTGCCCCACG GAGCCAGTTC CGGCCAGTGT	540
243	TGATGCGCTA AGGCTAAATC CGCACGGGTG AGGGGAAATT TCTCAAAACT AATGAAATGT	600
244	AAGCGTTGTA ATTGCGCTTG CGGATGCGCT TCGCGAAACT GATCAAATGC CTGCCATAGC	660
245	GTCAGGAAGT TTAATCCGGT GCCGAAGCCG CTCTCTGCTA CCACAAACAG AGGATGTGGA	720
246	TGCTCAGGAA AGCGTACCTC TAATTGGTTG CCTCCCAGAA AAACATAACG CGTCTCTTCC	780
247	AGCCCGTTAT CGTTGGAAAA ATAGACATCG TCAAAATCTC GGGAAACAGG TGTACCCTCA	840
248	GCATTAAATT CGAGGTGGC AGGTTGTATG GAGTAGTGT TCACGTAAGT TACTCGTCTT	900
249	ACAGGCGGTG GCTCGATCTT AGCGATGTGT GTAAGGCTGC GCAAATTTCT CTATTAAATG	960
250	GCTGATCGGA CTTGTTCCGG GTACAAGTGT ACGCTATTGT GCATTTCGAAA CTTACTCTAT	1020
251	GTGCGACTTA CAGAGGTATT GAATGAAACG TGCAGTGATT ACTGGCCTGG GCATTGTTTC	1080
252	CAGCATCGGT AATAACCAGC AGGAAGTCCT GGCATCTCTG CGTGAAGGAC GTTCAGGGAT	1140
253	CACTTTCTCT CAGGAGCTGA AGGATTCCGG CATGCGTAGC CACGTCTGGG GCAACGTAAA	1200
254	ACTGGATACC ACTGGCCTCA TTGACGCAA AGTTGTGCGC TTTATGAGCG ACGCATCCAT	1260
255	TTATGCATTC CTTTCTATGG AGCAGGCAAT CGCTGATGCG GGCTCTCTC CGGAAGCTTA	1320
256	CCAGAATAAC CCGCGCGTTG GCCTGATTGC AGTTCCGGC GCGGCTCCC CGCGTTTCCA	1380
257	GGTGTTCGGC GCTGACGCAA TGCGCGGCC GCGCGGCTG AAAGCGGTTG GCCCGTATGT	1440
258	GGTCACCAAA GCGATGGCAT CCGGCGTTTC TGCCTGCCTC GCCACCCCGT TAAAAATTCA	1500

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/09/227,742*

DATE: 04/12/1999
TIME: 13:20:40

INPUT SET: S31428.raw

Line

Error

Original Text